River Corridor/FFTF Tri-Party Agreement Milestone Review Meeting Minutes March 23, 2006

Approval:		40	Date:	120/06	
Approval:	AcCovnick AMIT Representation		(A5-11) Date:	7/20/00	ECEIV
Approval:	NA		(A3-04) Date:		AUG 0 7 20
Approval: N. Cet	TTF IAMIT Rep o AMIT Represer	2 fa	Date: 1/	20/06	EDMC
Minutes Prepared by S.L. W. Fluor	a Mac		(H8-40)	-24-06	
Almquist, R.S.	RL	A3-04	Guercia, R.F.	RL	A3-04
Ayres, J.M. Bartus, D.	Ecology EPA	HO-57 HO-57	Harris, S. Hebdon, J.B.	CTUIR* RL	A5-15
Bazzell, K.D.	RL	A3-04	Hedges, J.	Ecology	H0-57
Bilson, H.E.	FH	H8-20	Henry, D.	OOE*	
Bond, R.	Ecology	HO-57	Horst, L.	OOE*	
Bohnee, G.	NPT	D1 46	Hyatt, J.E.	FH	H8-40
Boyd, A.	EPA	B1-46	Jackson, D.E.	RL	A4-52
Cameron, C.E.	EPA	B1-46	Jim, R.	Yakama*	****
Ceto, N.	EPA	B1-46	LaRue, D.	WCH	H0-20
Chapin, D.	RL	A3-04	McCormick, M.S.	RL	A5-11

Bilson, H.E.	FH	H8-20	Henry, D.	OOE*	
Bond, R.	Ecology	HO-57	Horst, L.	OOE*	
Bohnee, G.	NPT		Hyatt, J.E.	FH	H8-40
Boyd, A.	EPA	B1-46	Jackson, D.E.	RL	A4-52
Cameron, C.E.	EPA	B1-46	Jim, R.	Yakama*	
Ceto, N.	EPA	B1-46	LaRue, D.	WCH	H0-20
Chapin, D.	RL	A3-04	McCormick, M.S.	RL	A5-11
Chalk, S.E.	RL	A7-75	Morrison, R.D.	FH	H8-12*
Cimon, S.	ODE		Neath, J.P.	RL	A3-04
Clark, C.E.	RL	A5-15	Niles, K.	OOE*	
Cusack, L.	Ecology	H0-57*	Pettiette, P.L.	WCH	H0-21
Doebler, S.V.	FH	N2-51	Piippo, R.E.	FH	H8-12*
Erickson, L.	RL	A3-04	Price, J.	Ecology	H0-57
Evans, D.T.	RL	A3-04	Skinnarland, E.R.	Ecology	H0-57
Farabee, A.	RL	A3-04	Walsh, J.L.	WCH	H0-20
Faulk, D.A.	EPA	B5-01	Weis, M.J.	RL	
Frey, J.A.	RL	A5-13	Wolf, A.	CTUIR	
Fritz, L.L.	FH	H8-12	Administrative Record	EDMC	H6-08*
Gadbois, L.E.	EPA	B1-46			
Gallagher, R.G.	FH	H5-20	*w/Attachment		

River Corridor/FFTF Tri-Party Agreement Milestone Review Meeting Minutes March 23, 2006

Complete Remedial Actions

(River Corridor Project portion of M-016/M-089/M-092-12/M-092-16/M-093/M-094)

Start: 10:00 a.m. End: 10:40 a.m.

River Corridor Project (RCP) has completed five milestones with three completed ahead of schedule. Five milestones are to be completed in FY 2006; two of these are shared with Fluor Hanford (FH).

M-92-12, Complete Acquisition of New Facilities, Modification of Existing Facilities, and/or Modification of Planned Facilities Necessary for Consolidated Storage Prior to Disposal of Hanford Site 300 Area Special Case Waste.

Due: 9-30-06

Status: This Milestone will either be deleted or deemed completed.

M-92-16, Complete Removal and Transfer, and Initiate Storage of Phase III 300 Area Special Caste Waste (SCW) Waste and Materials.

Due: 9-30-06

Status: RCP has completed their portion of this milestone in 327 Building. The last segments of this milestone are the tank heels remaining in 340 Building. One approach on how to deal with this issue is to take the heels out when the tanks are removed. The heels may go to ERDF but this is dependent on some determinations that haven't been finalized as yet.

It was planned to take the heels out of tanks by 9-30-06; however, the strategy has changed since the milestone was developed. Work will continue with AMCP staff so waste is removed as part of CERCLA. The 340 facility is coming down between now and 2016. PNNL uses a portion of 340 services so it will be available until the need is no longer there. Ecology stated that these wastes must be treated to LDR standards.

M-16-46, Initiate Remedial Actions for the Remaining Waste Sites for the 100 D Area.

Due: 7-30-06

Status: Issued Request for Proposals and completed confirmatory sampling; continue to be holding on schedule.

M-16-45, Complete Interim Remedial Action for 100-B/C Area.

Due: 12-31-06

Status: Milestone is planned for renegotiation due to extra work with chromium issues.

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M-16-57, Initiate Soil Remediation at K-East Basin.

Due: 4-30-07

Status: This is showing as on schedule but depends on K Basins activities. To initiate full-scale remedial action within one month after work is performed by another contractor may not be feasible.

Change Requests M-16-05-06 and M-94-05-02 were sent to Ecology in December. D&D and remediation milestones have priority. The issues are being worked.

M-89-00, Complete Closure of Non-Permitted Mixed Waste Units in 324 Building REC B-Cell, REC D-Cell, and High Level Vault.

Due: 10-31-05

Status: This milestone is now statused as unrecoverable. The public comment period on the Tri-Party Agreement change request has concluded with two minor comments. The change request is proposing the due date be revised to 9-30-2010 to realign with M-94-03. The Hanford Advisory Board (HAB) is concerned about delaying the work as the Engineering Evaluation/Cost Analysis (EE/CA) has already been written and a meeting was held on the Sampling and Analysis Plan (SAP). Comment responses have been prepared.

General Discussion:

Work on wastes to be removed from the 618-10/11 have end dates but there are no interim dates. There are some milestones that have specific due dates for engineering analyses with no interim remediation. Milestones will be developed for steps along the way. The internal target is for September.

Completed above/below-grade demolition of the 1715N oil tank, which was a demonstration project to practice on. The work went very well; it was scheduled to take three months and took only three weeks.

In the 300 Area, the 333 Building is a significant structure with a lot of heavy lifting and it is contaminated with beryllium.

D4 of the 313 and 314 Facilities (M-94-05) was completed as of February.

Completed venting of the ion exchange columns Special Case Waste (SCW) at 327 basin. The columns are out and located at Central Waste Complex (CWC). Decommissioning is continuing with no impacts identified.

Transmitted Draft A EE/CA for KE/KW Reactor Interim Safe Storage (ISS) (M-93-23, due 7-23-06).

Issued 100-D area Request for Proposal (RFP) for remediation. Expect to have a contractor mobilized by mid-summer.

3-23-06

Completed backfill of the 116-K-2 Mile Long Trench, which closes the last significant liquid waste site along the river. A subcontract has been awarded but waiting for concurrence before initiating backfill activities. Working with Ecology and not proceeding at risk.

There were some issues with 118-K as to whether an Operational Readiness Review (ORR) or Risk Assessment (RA) was needed. Now going through the RA process and expect to be back to work in three weeks. The Defense Nuclear Facility Safety Board (DNFSB) showed a lot of interest in understanding that things were being done safety. Have been more than successful in pushing pipes in the north wing.

There was an issue at 100-F about sample packages sent for confirmation; apparently some work wasn't done. A meeting is scheduled on that this afternoon.

The 300 Area has been pretty quiet; work was stopped on the south trench while work proceeded on the middle trench.

At the last meeting, work was deferred on the 618-7 Burial Ground but that is the next priority to start focusing on by late summer. Continue to get public pushback on where we are headed. Dialogue is needed on how to address some of the public concerns on how remediation work will be conducted; need to meet their needs as well as ours.

In looking at the Moses Lake decision, it appears local government may have more input into decision making. This issue would be worth discussion among the parties and would not be a big impact on cost.

Ecology has looked at the draft Record of Decision (ROD); they have not submitted comments but this needs further Tri-Party Agreement (TPA) discussion. The strategy in the execution plan for this work could have a bearing. Ecology will share a copy of the letter related to the Moses Lake actions. This is a way to do the work to meet their expectations so need to take a hard look at this.

Awarded the contract for Environmental Restoration Disposal Facility (ERDF) to mentor a protégé subcontractor for transportation services; expect to be operational on April 3, 2006.

ACTION: Ecology requested digital image of first picture on page 9 of the handout – D.LaRue to provide. (Completed 3-23-06)

Risk Assessment:

Finalized 100/300 Area Sampling Analysis Plan (SAP); approval is pending. The scope for the river portion of the assessment is still To Be Determined (TBD). Ecology and EPA are expressing concern that a contract is not in place as yet. Given the lead time for contracts, there will be a delay in getting work re-started. Note that this is an area of significant concern to Ecology and EPA.

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The leaking reservoir in the 100-D Area is a significant problem in that it has obscured the ability to find the source of chromium. Facility is looking at several options. It was thought B. Charboneau, DOE-RL, was going to send out letter addressing fixing the leak. RL is working on the letter.

Fast Flux Test Facility (FFTF) Transition (Tri-Party Agreement Milestone M-081)

Start: 10:40 a.m. Finish: 11:15 a.m.

General Discussion:

Continue to perform deactivation activities; costs and schedules are in good shape. For the quarter (December through March 2006) FFTF completed fuel offload of two additional Interim Storage Casks (ISCs). Fuel washing has slowed this last quarter as the last assemblies were requiring disassembly and segregation of pins before loading in the ISC. There are some leaking pins so they have to be encapsulated. The ISCs loaded with fuel are being transferred to the 200 Area Canister Storage Building (CSB) Interim Storage (ISA) Area pad.

All of the sodium has been drained except ~23,000 gallons in the Interim Decay Storage (IDS) vessel. Sodium drain of the IDS vessel is scheduled to be completed by September 30, 2006.

A recovery plan has been developed to address the unplanned NaK/Water reaction event and actions are underway. A vendor should be here by April 10 and the NaK residual cleaning of the cooling loops in the fuel storage facility should be completed by the end of April.

FFTF will complete offloading mixed oxide fuel (MOX) by the end of this month. All the MOX fuel has been washed and loaded in an ISC but it needs to be closed up and transferred to the 200 Area. The ISC may be transferred to the 400 Area ISA if CSB is not ready to receive the ISC.

Follow-on activities are to complete transfer of loaded ISCs; five casks have been transferred and the other five should be done by the end of April. Evaluating a path forward for sodium bonded fuel; this fuel will either go to Idaho or be loaded in an ISC and sent to the 200 Area.

Preparations for sodium drain from the Interim Decay Storage (IDS) vessel is going very well; this will be completed on schedule (9-30-06). Completed removal of several non-fuel components. By the end of FY06 all bulk sodium will be drained and stored in the Sodium Storage Facility (SSF). There will be between 4K-8K gallons of residual sodium left in the plant systems and components. This amount is being disputed by Fluor Hanford (FH) as they claim there is more in the piping.

The sodium systems are being kept inerted and will remain that way until all sodium residuals are gone. The sodium systems are currently under an argon blanket, but when the facility goes into a Surveillance and Maintenance (S&M) mode, it will get converted to nitrogen. The cost of maintaining the facility is dependant on how far the plant goes down. If it gets to 'cold and dark' with no ventilation and nothing operational, it would run approximately \$2-\$3M a year.

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Ecology asked if there is a safety analysis that evaluates what would happen if the inert status was lost. It is probable nothing would happen, if something physical actually broke there would be issues. The sodium systems are maintained under positive pressure and if there were a leak the nitrogen will leak, thus using additional nitrogen. The Final Safety Analysis Report (FSAR) has analyzed this scenario. The sodium in 200 Area has been maintained in an inert blanket for years and it is anticipated the FFTF would be left like that for the foreseeable future. When the sodium is off-loaded, there will be 260,000 gallons in the Sodium Storage Facility (SSF).

ACTION: EPA/Ecology requested information on the loss of the inert blanket on the residual sodium.

Issues.

As a result of redirection to shut FFTF down for long term S&M, this has raised some interesting issues whether there will be enough money to support offloading the fuel to Idaho. From a life cycle aspect, there are significant costs if the fuel needs to be sent to 200 Area and not to Idaho within the near future.

T-3 cask Safety Analysis Report for Packaging (SARP) Addendum was submitted and disapproved by EM-24; continue to work this issue. The T-3 cask is used to ship the sodium bonded fuel. This addendum is necessary to increase the payload for each shipment. At this time, eighteen sodium bonded pins can be shipped at a time. Working on increasing this amount in order to ship 169 pins (a full assembly). With this capability, there would only be 12 shipments vs. 70 shipments.

Page 9 of the handout lists milestones affected by this redirection. The sodium evaluation reports are affected because it is difficult to submit a report when there is no clear path forward. The tank closure waste management Environmental Impact Statement (EIS) will be completed after these dates. M-092-09 is also affected by this redirection.

M-081-00A-T04, shipments to Idaho, are affected as this is a matter of funding as well as the T-3 Cask SARP. RL and FFTF are looking at options on the Idaho work recognizing that the overall goal is to cut costs as much as possible. Do not want to make a short term decision that doesn't make long-term sense. Two major issues that will have significant costs are leaving sodium residuals and the sodium bonded fuel. If these issues are not addressed until a later date, it will significantly increase life cycle costs. If the sodium residual cleaning is deferred for a long period the cost impact is probably by a multiple of 3-5 increase. The residuals issue should be addressed while the experts are still available.

Ecology asked if there were any resistance with Idaho taking the sodium bonded fuel. Based on the contact with Idaho over the last several months, there does not appear to be a problem. Idaho's concern was that waste could be generated by using their process. If this were to happen, would they be able to send it back to Hanford. If there is any waste generated, it is a very small percentage of Idaho's fuel processing waste and there is no reason to send it back. It has been agreed that Hanford can send 12 shipments to Idaho.

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Once Congress appropriates the money, it is specific to FFTF. However, for the out-years, Hanford is given a target ceiling and DOE can set the priority. The current budget shows \$46M for FY06, \$34.8M for FY07, and \$10M for FY08. Over target funds of \$10M are intended for shipment of sodium bonded fuel to Idaho and the sodium residual efforts.

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River Corridor Closure Project

TPA Quarterly Review

For period: December 2005 - February 2006



River (Corrid	or Milestones:
M-16		M-92-16
M-89		M-93
M-92-	12	M-94

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

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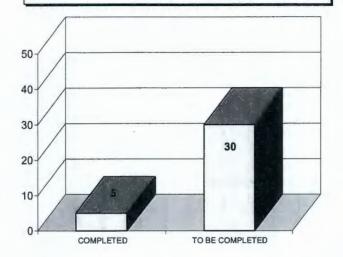
RIVER CORRIDOR

- > River Corridor Milestone Statistics
- ➤ River Corridor FY06-07 Milestone Status
- > River Corridor Milestone Schedule
- > River Corridor Change Requests
- > River Corridor Project Status / Accomplishments
- > River Corridor Issues
- > River Corridor Performance Summary

INTEGRATION ISSUES

River Corridor TPA Milestone Statistics

(Major & Interim Milestones)



	Compliance Due Date	To Be Completed as of 02/28/2006	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
M-16	9/30/2018	22	M-16-70 (C)	10/30/05	M-16-61	12/31/08
Remedial Design /	(M-16-00B)		M-16-63 (C)	12/31/05	M-16-58	04/30/09
Remedial Action	(10 00-)	- 4	M-16-46	07/31/06	M-16-52	07/31/09
		1	M-16-45	12/31/06	M-16-64	09/30/10
Risk Assessment			M-16-60	12/31/06	M-16-51	12/31/10
			M-16-67	03/31/07	M-16-47	12/31/11
			M-16-57	04/30/07	M-16-53	12/31/12
			M-16-72	06/30/07	M-16-55	12/31/12
			M-16-50	07/31/07	M-16-62	12/31/12
			M-16-54	07/31/08	M-16-00A	12/31/12
			M-16-49	12/31/08	M-16-69	09/30/15
			M-16-56	12/31/08	M-16-00B	09/30/18
M-93	TBD	5	M-93-18 (C)	12/31/05	M-93-22	09/30/11
Reactors on Rive	(M-93-00)		M-93-23	07/31/06	M-93-20	09/30/12
Final Disposition			M-93-19	09/30/09	M-93-00	TBD
M-89 Closure of 324 Bldg Non-Permitted Mixed Waste Units	10/31/2005* (M-89-00)	1	M-89-00	10/31/05		
M-94	9/30/2010	2	M-94-01 (C)	12/31/05	M-94-03	09/30/10
300 Area	(M-94-03)	-	M-94-05 (C)	09/30/06	M-94-00	09/30/15
Surplus Facilities Demolition						
Milestones to be Completed		30	5	MILESTONES	COMPLETED	IN FY06 (C)

^{*}M-89-00 is currently in dispute and is progressing at the RL/regulator project manager level. (Dispute was initiated on 7/29/05 prior to commencement of RC contract on 8/27/05.)

M-92	9/30/2006	2	M-92-12	09/30/06	
300 Area			M-92-16	09/30/06	

RIVER CORRIDOR CLOSURE PROJECT

RIVER CORRIDOR FY 2006 TPA MILESTONE SUMMARY

Status as of: February 28, 2006

				Forecast/	Com	oleted		Forecast			
Project	Milestone	Title	Compliance Date	Actual Date	Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule	Unrecov erable	Deleted
ESFC	M-16-70	Begin Sampling to Support the 100 Area and 300 Area Component of River Corridor Baseline Risk Assessment	10/30/2005	10/13/2005 (A)	х						
D4	M-89-00*	Complete Closure of Non-Permitted Mixed Waste Units in 324 Building REC B-Cell, REC D-Cell, and High Level Vault	10/31/2005	09/30/2010 (F)						Х	
ISS	M-93-18	M-93-18 Complete 105-H Reactor Interim Safe Storage		10/20/2005 (A)	х						
FR	M-16-63	Submit a Schedule and TPA Milestones to Complete Interim Remedial Actions for 300-FF-2 Waste Sites and Confirmatory Sampling of 300-FF-2 Candidate Sites	12/31/2005	12/29/2005 (A)		x					
D4	M-94-01	Submit a Schedule and TPA Milestones to Complete Disposition of the Surplus Facilities in the 300 Area		12/29/2005 (A)		X					
FR	M-16-46	Initiate Remedial Actions for Remaining Waste Sites for 100-D Area	07/31/2006					×			
ISS	M-93-23	Submit EE/CA for KE/KW Reactor ISS	07/31/2006	03/03/2006 (F)			х				
D4	M-94-05	Complete Deactivation, Decontamination, Decommissioning, and Demolition of 313 and 314 Facilities	09/30/2006	02/16/2006 (A)	х						
D4	M-92-12**	Complete Acquisition of New Facilities, Modification of Existing Facilities, and/or Modification of Planned Facilities Necessary for Consolidated Storage Prior to Disposal of Hanford Site 300 Area Special Case Waste	09/30/2006								
D4	M-92-16***	Complete Removal and Transfer, and Initiate Storage of Phase III 300 Area Special Case Waste (SCW) Waste and Materials	09/30/2006								
		Total FY 2006 River Corridor TPA Milestones	8		3	2	1	1	0	1	0

^{*}M-89-00 is currently in dispute and is progressing at the RL/regulator project manager level. (Dispute was initiated on 7/29/05 prior to commencement of RC contract on 8/27/05.) TPA change package and closure plan to go through public comment (1/17/06-3/6/06); proposing compliance date be revised to 9/30/2010 to realign with M-94-03.

RIVER CORRIDOR FY 2007 TPA MILESTONE SUMMARY

				Forecast	Comp	oleted		Forecast			
Project Milestone		Title	Compliance Date	Actual Date	Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule	Unrecov erable	Deleted
FR	M-16-45	Complete Interim Remedial Action for 100-B/C Area	12/31/2006				M-16-45 is	planned for ren	egotiation		
FR	M-16-60	Complete Interim Remedial Actions for at Least 3 of the Following High Environmental Priority 300-FF-2 Waste Sites (316-4, 618-2, 618-3, 618-5, 618-7) and Complete Confirmatory Sampling of 300-FF-2 Candidate Sites 300-7 and 300-9	12/31/2006					х			
FR		Submit a Technology Development Summary Report for Phases I, II, and III, an Intermediate Design Report, a Remediation Schedule, and a Treatability Investigation Work Plan for Remedial Actions at 618-10 and 618-11 Burial Grounds	03/31/2007					x			
FR	M-16-57*	Initiate Soil Remediation at K-East Basin	04/30/2007					х			
ESFC	M-16-72	Submit Draft 100 Area and 300 Area Component Baseline Risk Assessment Report	06/30/2007					х			
FR	M-16-50	Initiate Remedial Actions for Remaining Waste Sites for 100-H Area	07/31/2007					х			
		Total FY 2007 River Corridor TPA Milestones	6		0	0	0	5	0	0	0

^{**}M-92-12 - Milestone shared with Fluor Hanford. At this time there are no additional facilities identified as needed to store 300 Area SCW.

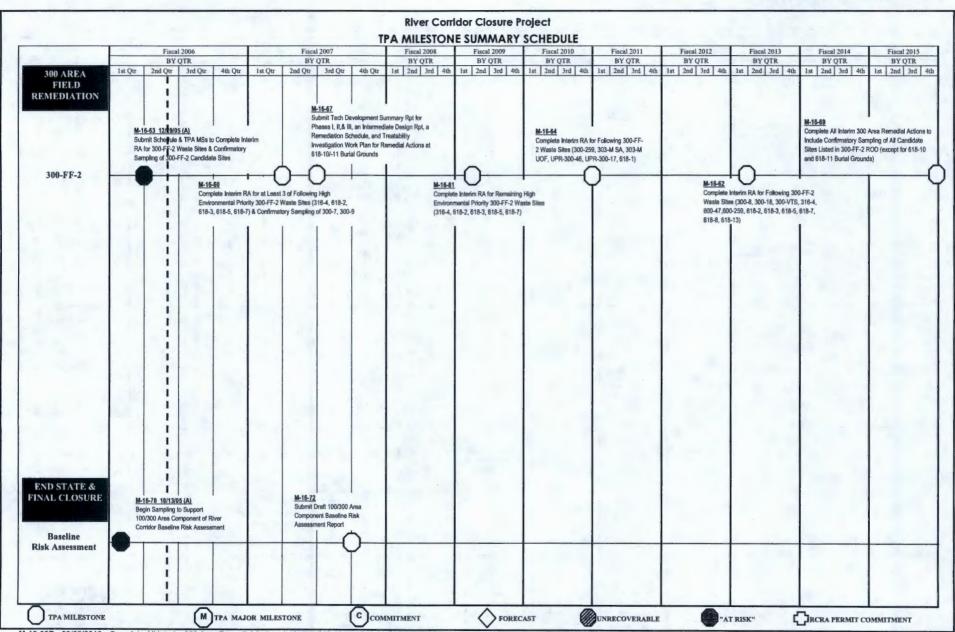
^{***}M-92-16 - Milestone shared with Fluor Hanford. 327 building SCW is expected to be removed by 3/30/06. The last SCW item is in the 340 facility, which is presently under Fluor Hanford's control.

							**		dor Closure P						
		Fiscal	2006			Fiscal 2		PA MILESTON Fiscal 2008	Fiscal 2009	Fiscal 2010	Fiscal 2011	Fiscal 2012	Fiscal 2013	Fiscal 2014	Fiscal 2015
100 + DE + EIEI D		BY				BY Q	TR	BY OTR	BYOTR	BY OTR	BY OTR	BY OTR	BY OTR	BYOTR	BY OTR
100 AREA FIELD REMEDIATION	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	M-16 Comp		3rd Qtr 4th Qtr To be renegoliated	1st 2nd 3rd 4th	ist 2nd 3rd 4th	1st 2nd 3rd 4th	1st 2nd 3rd 4th	1st 2nd 3rd 4th	1st 2nd 3rd 4th	1st 2nd 3rd 4th	1st 2nd 3rd 4
100-B/C AREA		-				VC Area									
			Actions	Remedial for Remaining Sites for 100-D								M-16-47 Complete Interim Remedial Actions for 100-D Area			
100-D AREA		i				-						\cup	-		
100-F AREA									M-16-49 Complete Interim Remedial Actions for 100-F Area						
100-F AREA		-					M-16-50 Initiate Remedial				M-16-51 Complete Interim				
100-H AREA		-					Actions for Remain Waste Sites for 100 Area				Remedial Actions for 100-H Area				
100 K 1 DE 1						M-16-57* Initiate Soil Remediation K-East Basin			Remaini K Area I	Response Actions for ng Waste Sites for 100- ncluding Closure of E Waste Trtml System			M-16-53*** Complete Interim Response Actions for 100-K Area		
100-K AREA		1				ite Remediati			M-16-58* Initiate Soil Remediation at K-West Basin				M-16-55 Complete Interim Response Actions for 100-N Area		
100-N AREA							lni for	18-54 liate Response Actions Remaining Waste Sites 100-N Area	M-16-56 Complete Interim Remedial Actions for				0		
100-IU-2 / 100-IU-6		1							100-IU-2 and 100-IU-6						
													M-16-00A Complete All Interim Response Actions for 100 Areas		
100 COMMON													M		
TPA MILESTONE			TPA MAJ				ССОММІТ		^	<i>a</i>	RECOVERABLE			JRCRA PERMIT C	

^{*}M-16-57/M-16-58 - To initiate full-scale remedial action within one month after basin removal performed by another Hanford Site contractor may not be feasible depending on timeframe and scope currently being implemented.

^{**}M-16-52 - Portion that states "including closure of 1706-KE Waste Treatment System" is not RCC scope.

^{***}M-16-53 - Statement in TPA CR M-34-04-01 states "100-K Area remedial action is not complete until K-Basin sludge shipments for disposal off site have taken place". This portion is not RCC scope.



M-16-00B - 09/30/2018 - Complete All Interim 300 Area Remedial Actions Including 618-10 and 618-11 Burial Grounds

C-16-06C - TBD - Submit a Schedule and Establish Commitments to Complete Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 100 Area C-16-06D - TBD - Submit a Schedule and Establish Commitments to Complete Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 300 Area

River Corridor Closure Project TPA MILESTONE SUMMARY SCHEDULE Fiscal 2009 Fiscal 2013 Fiscal 2014 Fiscal 2006 Fiscal 2007 Fiscal 2008 Fiscal 2010 Fiscal 2011 Fiscal 2012 BY QTR BY QTR BY QTR BY QTR BY QTR REACTOR BY QTR BY OTR BY OTR BY QTR BY QTR 1st 2nd 3rd 4th ISS 1st Qtr 2nd Qtr 3rd Qtr 4th Qtr 1st Qtr 2nd Qtr 3rd Qtr 4th Qtr M-93-18 10/20/05 (A) Complete 105-H Reactor ISS "H" REACTOR M-93-23 M-93-22 Submit EE/CA for Complete 105-KE and 105-KW KE/KW Reactor ISS "KE / KW" Reactor ISS REACTORS M-93-19 3/3/06 (E) Submit to EPA/Ecology M-93-20 105-N/109-N Reactor Complete 105-N ISS Design Report Reactor ISS "N" REACTOR 300 AREA SURPLUS M-94-00 M-94-01 12/29/05 (A) M-94-05 2/16/06 (A) Complete Disposition of 300 Area Surplus **FACILITIES** Submit Schedule and TPA Complete Disposition of Following Surplus Facilities: Facilities to be Defined as the 220 Complete Deactivation, Decontamination, Milestones to Complete Disposition 303M,332,333,334,334A,3221,3222,3223,3224, Decommissioning, Demolition (D4) of Facilities Listed in Harrford RCCC RFP of Surplus Facilities in 300 Area 225,324,324B,327 313 and 314 Facilities D4 M-92-12** Complete Acquisition of New Facilities, Mods of Existing Facilities, and/or Mods of Planned Facilities Necessary for Consolidated Storage Prior to Disposal Complete Closure of Non-Permitted Mixed Waste of Harrford Site 300 Area SCW Units in 324 Bldg REC B-Cell, REC D-Cell, and High Level Vault 9/30/10(F) M-92-16*** Complete Removal and Transfer, and Initiate Storage of Phase III 300 Area SCW and Materials M TPA MAJOR MILESTONE COMMITMENT TPA MILESTONE FORECAST UNRECOVERABLE "AT RISK" RCRA PERMIT COMMITMENT

M-93-00 (TBD) - Complete Final Disposition of All 100 Area Surplus Production Reactor Buildings

^{*}M-89-00 - Currently in dispute at RL/regulator project manager level (dispute was initiated on 7/29/05 prior to commencement of RC contract on 8/27/05); anticipate completion date to be revised to realign with M-94-03 (due 9/30/2010).

^{**}M-92-12 - Milestone shared with Fluor Hanford. At this time there are no additional facilities identified as needed to store 300 Area SCW.

^{***}M-92-16 - Milestone shared with Fluor Hanford. 327 building SCW is expected to be removed by 3/30/06. The last SCW item is in the 340 facility, which is presently under Fluor Hanford's control.

RIVER CORRIDOR TPA CHANGE REQUESTS (December 2005 - February 2006)

The following two proposed TPA change request packages were prepared on 12/29/05 to satisfy completion of M-16-63, "Submit a Schedule and TPA Milestones to Complete Interim Remedial Actions for 300-FF-2 Waste Sites and Confirmatory Sampling of 300-FF-2 Candidate Sites", and M-94-01, "Submit a Schedule and TPA Milestones to Complete Disposition of the Surplus Facilities in the 300 Area". both due 12/31/05.

M-16-05-06 300-FF-2 Waste Site Remediation <u>Proposed</u> The following two TPA interim milestones are being proposed to show continued progress towards completion of interim remedial actions of 300-FF-2 "inside the fence" waste sites:

- -- M-16-73 (9/30/2008) Initiate Soil Remediation at the 618-1 Burial Ground
- M-16-74 (9/30/2012) Complete Remediation (to include excavation, loadout, closeout sampling, backfill, and revegetation) for all 300 Area "Inside the Fence"
 Waste Sites North of Apple Street

The following interim milestone is proposed for revision to remove the 316-4 waste from this milestone as it will be remediated with the 618-10 Burial Ground:

 M-16-61 - (12/31/2008) - Complete Interim Remedial Actions for the Remaining High Environmental Priority 300-FF-2 Waste Sites (316-4, 618-2, 618-3, 618-5, and 618-7)

M-94-05-02
300 Area Surplus Facility
Disposition
Proposed

The following three TPA interim milestones are being proposed to show continued progress towards deactivation, decontamination, decommissioning, and demolition of 300 Area high priority facilities:

M-94-06 - (12/30/2007) - Complete Removal of 3 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720; to Include 333 Facility

M-94-07 - (12/30/2009) - Complete Removal of 6 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720; to Include 306E, 306W, 3720, and 305B Facilities

M-94-08 - (12/31/2011) - Complete Removal of 12 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720

RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

Washington Closure Hanford (WCH) assumed River Corridor cleanup responsibilities on August 27, 2005. Cleanup along the Columbia River will be accomplished by five major WCH projects: Deactivation, Decontamination, Decommissioning, and Demolition (D4) Closure Project, Reactor Interim Safe Storage (ISS) Closure Project, Field Remediation (FR) Closure Project, Waste Operations Project, and End State and Final Closure (ESFC) Project.

D4 Closure Project (M-89-00, M-94-01, M-94-05) M-92-12, M-92-16)

100 Area

- Completed 107N (Basin Recirculation and Cooling Building)
 Vessel Media Subcontract Request for Proposal (RFP),
 bidder's review, pre-bid walkdown, accepted/responded to
 vendor questions; commenced review of vendor bids.
- Completed hazmat removal at 183N, 183NA, 183NB, and 183NC pumphouse and support facilities.
- Completed demolition/loadout of 151N, 1515N, 1516N, 1517N, 1518N, 1519N, and 1331N.
- Completed above/below-grade demolition of 1715N Oil Tank; commenced loadout.
- Continuing demolition of 1802N Steam Pipe and Trestle; commenced loadout.



300 Area (M-94-01, M-94-05)

- Completed demolition/loadout of following buildings: 3712, 3713, 3715, 3716, 3722, 303A, 303G, 311TF, 334A.
- Completed deactivation activities for buildings 303J; started deactivation of buildings 304/A and 3707D.
- Commenced deactivation of hazardous waste materials in 303M.
- Started asbestos removal in building 333.
- Completed the 334 Tank Farm below-grade pipe chase removal and backfill.

 Completed physical activities of TPA Milestone M-94-05, "Complete D4 of 313 and 314 Facilities" (due 9/30/06), on 2/16/06 when backfill and slab stabilization activities were completed at the 314 facility. 313 facility demolition/loadout were completed in August 2005. WIDS revisions were made to include foundation and subsurface structures and are being forwarded to Fluor Hanford for WIDS database incorporation.



Filling Sumps in 314 Pad

- Removed light poles along Ginko Street for reuse in the 200 Area.
- Transmitted change request with proposed milestones and draft baseline schedule to the regulators on 12/29/05 for approval, which satisfied completion of TPA Milestone M-94-01, "Submit a Schedule and TPA Milestones to Complete Disposition of Surplus Facilities in the 300 Area" (due 12/31/05).

324/327 Facilities (M-89-00, M-92-12, M-92-16)

- Completed venting of the ion exchange columns (special case waste) located in the 327 basin in January. The 327 SCW packaging/shipment activities are planned to be completed by 3/31/06 (supports TPA Milestone M-92-16 due 9/30/06).
- Awarded subcontract for 324/327 D4 Documented Safety Analyses.
- Completed the Hot Cell Data Quality Objectives (DQO) report.
- Completed WCH review of Hot Cell Sampling and Analysis Plan.
- Continued characterization of 324 administrative/industrial areas
- Continued disposition of "cold side" excess chemicals.
- Incorporated RL/EPA comments, and issued the 300 Area Engineering Evaluation/Cost Analysis (EE/CA) #2, Rev. 0.
- Completed removal of 327 liquid nitrogen system.
- Initiated public comment period 1/17/06 for the proposed changes to the M-89-00 TPA milestone and amended 324 Building Closure Plan. Public comment period will end 3/6/06.

RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

Reactor ISS Closure Project (M-93-23)

- Transmitted Draft A EE/CA to RL for review on 2/22/06; RL transmitted to regulators on 3/3/06 which satisfies completion of M-93-23, "Submit EE/CA for KE/KW Reactor ISS" (due 7/23/06).
- · Completed 100-K DQO task-specific planning.
- Commenced 100-K environmental risk assessment.
- · Commenced 100-K draft Action Memorandum.
- For 105/109N Commenced RL review/approval of Final Hazard Classification/Auditable Safety Analysis (FHC/ASA); completed Removal Action Work Plan (RAWP) comment resolution and issued RAWP; issued Rev. 0 Waste Designation SAP report.
- Completed characterization work packages for 105NB, 105ND, 105NE, and 1605NE.
- Completed pre-demolition characterization sample collection at 105NA and 1722N.

Field Remediation Closure Project (M-16-63, M-16-46)

100 Area

Completed excavation and sorting activities at the 118-B-1
 ^a Bunal Ground. Downposted the 118-B-1 high radiation area and removed chain link fencing. Continued loadout of stockpiled material.



Placing Tritium Tubes in a Box that will be Grouted at ERDF

- Shipped 898 tritium tubes (found during 118-B-1 excavation) to ERDF for treatment and disposal.
- Continued excavation/sorting/loadout at 118-C-1 Burial
- Continued planning for shipment of spent nuclear fuel pieces to K-Basins (found during burial ground remediation).
- Issued 100-D Area Remaining Sites and Burial Grounds RFP.
- Completed confirmatory sampling of the 100-D Area Remaining Sites.
- Initiated preparation of 100-H Area Burial Ground and RTD Remaining Sites Design Package.
- Completed backfill of the 116-K-2 Mile Long Trench on 2/22/06, completing 3½ years of remediation at 100-K Area without a lost time accident.
- Continued design and submittal activities associated with the 100-IU-2 and 100-IU-6 Remaining Sites remediation.
- Completed excavation and sorting of the 100-F-20 and 118-F-9 Burial Grounds, and the 118-F-7 storage waste site.
 Initiated excavation and sorting of 118-F-3 Burial Ground.

 Completed beryllium sampling for the 120-F-1 Burial Ground.



Sampling Beryllium at 120-F-1 Glass Dump

- Awarded 116-N-1 backfill subcontract on 2/13/06; initiated documentation for backfill concurrence.
- · Issued 600-270 Horseshoe Landfill final document.
- Working with mentor protégé subcontractor to address design and remediation of the 600-149 unexploded ordinance (UXO) waste site.

300 Area

 Completed loadout of the 618-2 East stockpile from the staging area and initiated loadout in the West stockpile.



Loading Out 618-2 Material from Stockpile/Sorting Area

- Started sorting and mixing of fixatives at the South Trench in the 618-2 Burial Ground.
- Initiated work with subcontractor to develop details for the 618-7 Burial Ground.
- Completed Global Positioning Environmental Radiological Survey (GPERS), sampling design, and closeout plans for 618-3 and 618-8 Burial Grounds; submitted to RL/EPA for review and concurrence.
- Transmitted change request with proposed milestones and draft baseline schedule to the regulators on 12/29/05 for approval, which satisfied completion of TPA Milestone M-16-63, "Submit a Schedule and TPA Milestones to Complete Interim Remedial Actions for 300-FF-2 Waste Sites and Confirmatory Sampling of 300-FF-2 Candidate Sites" (due 12/31/05).

RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

- Continued developing characterization model for the expected wastes to be removed from the 618-10/11 Burial Grounds.
- Completed the third independent review for, and briefed the regulators on, the development of options for remediation of the 618-10/11 Burial Grounds.

Waste Operations Project

- Received RL approval to perform "off the ramp" disposal of beryllium-containing waste. Resolved EPA's concerns with compaction of beryllium-contaminated waste.
- Completed the evaluation of Disposal Operations bid proposals and issued recommendation to RL for award.



Containers from K-Basins Being Prepared for Future Void-Fill Grouting by the Addition of Vent Hoses (Cell 4). (Note the "ramped" soil for radiation shielding.)

- Grouted 16 K-Basin Conex waste boxes (999 cubic yards of grout).
- Continued placement/disposal of ion exchange modules and fuel storage racks from K-Basins.
- Completed construction of macroencapsulation pads for future waste treatment.



Forming a Macroencapsulation Pad in Cell 6

- Awarded contract to mentor protégé subcontractor for transportation services (roll-on/roll-off) and received first set of submittals.
- Through February 19, approximately 320,764 tons of contaminated material have been disposed in ERDF since WCH assumed River Corridor cleanup responsibilities on August 27, 2005. More than 6.3 million tons of waste have been disposed in ERDF since operations began in July 1996.

End State and Final Closure Project (M-16-70)

Risk Assessment

- Completed installation of equipment to evaluate clams and macroinvertebrates in the Columbia River.
- Issued River Corridor End State Strategy, WCH-8, Rev. 0.
- Completed pore water and surface water sampling in the near-shore portion of the Columbia River,
- Initiated sediment and sculpin sampling.



Sculpin tend to be small with a typical maximum size of about 4 inches. Coloration can also vary.



All sculpin from a sampling zone are kept together. Each sculpin is examined individually for physical conditions such as parasites and abnormal fin size.



After the sculpin are examined, they are blended with dry ice to make a more homogeneous sample for contaminant analysis.

- Finalized 100/300 Area Sampling and Analysis Plan (SAP); approval pending.
- Issued 100-B/C Pilot Risk Assessment Report, Draft B to RL.
- Continuing preparation of the source and groundwater integrated strategy document.
- Initiated the fall sampling data summary report which will include a performance assessment of multi-increment sampling.

Long Term Stewardship

- Initiated operational testing of the River Corridor Closure database
- Completed strategy planning for the 300 Area industrial cleanup approach analysis workscope.

Orphan Sites

- Finalizing historical review subtask as part of the orphan sites evaluation for the 100-D Area.
- Completed orphan sites lessons learned evaluation for reactor/operational areas.
- Continued lessons learned evaluation for the interim (nonoperational) areas of the river corridor.

RIVER CORRIDOR ISSUES

 118-K-1 Burial Ground: Spent nuclear fuel (SNF) was discovered in the 100-B/C Burial Grounds during remediation. The Auditable Safety Analysis (ASA) for the 118-K-1 Burial Ground was revised to include the potential discovery of SNF. Due to the different types of material that may be present in the burial ground, preliminary calculations indicate the hazard categorization will increase to a Hazard Category 3 Nuclear Facility. Field activities have been suspended to prepare a Documented Safety Analysis (DSA).

Status: The DSA was approved by RL. The project was also directed to perform an Operational Readiness Review (ORR) due to the 118-K-1 Burial Ground Final Hazard Classification being greater than Category 3. RL, with WCH support, requested an exemption to the ORR requirement from DOE Headquarters which was accepted. An RL-approved Readiness Assessment is scheduled for late March 2006 with followup intrusive work starting in early April.

RIVER CORRIDOR CLOSURE PROJECT PERFORMANCE SUMMARY Contract Inception (8/27/05) through February 2006 (\$K)

	IPB		CUMULATIVE			S	CHEDULE	AR		COST VAR	
	BCWS	EAC	BCWS	BCWP	ACWP	\$	%	SPI	\$	%	CPI
D4	TBD	TBD	TBD	TBD	14,857						
Reactor ISS	TBD	TBD	TBD	TBD	1,377						
Field Remediation	TBD	TBD	TBD	TBD	20,966						
Waste Operations	TBD	TBD	TBD	TBD	10,826						
ESFC	TBD	TBD	TBD	TBD	2,257						
Mission/General Support	TBD	TBD	TBD	TBD	29,169						
RCC TOTAL	TBD	TBD	TBD	TBD	79,452		-		_		

The draft RCC Integrated Project Baseline (IPB) was submitted to RL on November 22, 2005. Addendum 1 was submitted on December 19, 2005. The documents are currently under review by RL. Upon approval, the IPB will be used for project variance tracking.

INTEGRATION ISSUES

This section of the quarterly review discusses Central Plateau milestones and workscope that potentially affect River Corridor milestones.

 On October 31 the DOE Groundwater Project delivered a report to Ecology, assessing the effects of groundwater/river interface on aquatic and riparian eco-receptors at the 100-N Area. The End States and Final Closure Project is planning to incorporate the results of the 100-N Area assessment in the 100/300 Area baseline risk assessment.

U.S. Department of Energy Richland Operations Office Fast Flux Test Facility (FFTF) Deactivation

Tri-Party Agreement (TPA)
M-81-00 Series Milestones
03/23/06

Status of FFTF Deactivation TPA M-81-00 Milestones (03/23/06)

Milestone	Milestone Description	Due Date	Status
M-81-00A	Complete FFTF Facility Transition and Initiate the Surveillance and Maintenance Phase	02/28/11	On Schedule
M-81-00-T01	Complete Reactor Defueling	09/30/95	Completed 04/19/95
M-81-00A-T02	Complete Transfer of Unirradiated Fuel to Secure Onsite Storage	03/31/09	Completed 11/3/03
M-81-00A-T03	Complete Transfer of Irradiated Fuel to Secure Onsite Storage	03/31/09	Ahead of Schedule
M-81-00A-T04	Complete Transfer of Special Fuel to DOE's Idaho National Engineering Laboratory for Consolidated Storage	03/31/09	On Schedule
M-81-00A-T05	Complete Auxiliary Plant Systems Shutdown	02/28/11	On Schedule
M-81-01	Initiate Sodium Storage Facility Construction	02/28/97	Completed 10/9/95
M-81-02	Complete Sodium Storage Facility Startup	07/31/98	Completed 01/17/97

Status of FFTF Deactivation TPA M-81-00 Milestones and Related M-20-29B Milestone (03/23/06, Continued)

Milestone	Milestone Description	Due Date	Status
M-81-10-T01	Submit Final Sodium Disposition Report	07/31/07	On Schedule
M-81-11	Submit FFTF End Point Criteria Document	08/31/05	Completed 07/7/05
M-81-12	Initiate FFTF Sodium Drain	06/30/03	Completed 04/7/03
M-81-13	Complete Reactor and Heat Transport System Sodium Drain	06/30/05	Completed 06/15/05
M-81-14-T01	Complete Fuel Storage Facility Sodium Drain	04/30/07	Completed 09/1/05
M-81-14-T02	Initiate Interim Decay Storage Vessel Sodium Drain	06/30/08	Ahead of Schedule
M-81-14	Complete FFTF Sodium Drain	09/30/09	On Schedule
M-81-15	Submit FFTF Surveillance and Maintenance Plan	06/30/10	On Schedule
M-20-29B	Submit Sodium Storage Facility and Sodium Reaction Facility Closure Plan or Request for Procedural Closure to Ecology as Defined in Agreement Section 6.3.3	06/30/03	Completed 06/12/03

RL Program Managers Assessment of Contractor Performance

(03/23/06)

- Fluor Hanford continues to focus on the high priority deactivation activities of fuel offload and sodium drain for FFTF.
- Secondary priority of Systems Deactivation continues on plant systems that are no longer needed.
- Project costs and schedule continue to be maintained in control

Significant Accomplishments Last Three Months

(03/23/06)

Fuel Offload

- Completed fuel wash and offload to Interim Storage Casks (ISCs) (14 assemblies, 2 ISCs)
- Transferred 5 loaded ISCs to the 200 Area ISA
- Completed disassembly of Multi-duct assembly ACN-1
- 6 spent fuel assemblies remain to be washed and stored; all are sodium-bonded fuel assemblies

Significant Accomplishments Last Three Months

(03/23/06)

Sodium Drain

- All bulk sodium has been drained from the FFTF Plant except for the Interim Decay Storage vessel (~23,000 gallons)
- Design of equipment for IDS sodium drain continues
- Initiated NaK cleaning in the Fuel Storage Facility cooling loop
 - Work was progressing until an unplanned NaK/Water reaction event occurred
 - A Recovery Plan has been prepared and approved
 - · Actions have been initiated per the Recovery Plan

Significant Planned Actions - Next Six Months (03/23/06)

Fuel Offload

- Load and transfer one additional Interim Storage Cask to the 400 Area ISA. Planned to be completed by the end of March. This completes offload of all the mixed oxide fuel.
- Complete transfer of loaded ISCs to the 200 Area ISA.
- Wash and store sodium bonded fuel assemblies in the IEM Cell.
 Disposition is being evaluated.

Sodium Drain

- Complete NaK loop cleaning in the Fuel Storage Facility. Planned to be completed by the end of April.
- Complete sodium drain from the Interim Decay Storage (IDS) vessel (~23,000 gallons). Due September 31.
- Remove all non-fuel components from the IDS vessel in support of sodium drain

Auxiliary Systems Shutdown

- Continue systems shutdown when they are no longer needed.
- Establish a new FFTF shutdown path forward

Schedule / Cost Performance Fiscal Year to Date Status (\$000s) through 02/06

Description	BCWS	BCWP	ACWP	SV	CV	BAC
			-	_	_	_
FFTF	\$13,581	\$15,296	\$14,557	\$1,750	\$ 739	\$42,046

Schedule Variance Analysis (+\$1.7M):

The favorable schedule progress is due to completing FY05 fuel offload activities (Interim Storage Cask deliveries and completing SRF-3 and SRF-4 processing and storage) while maintaining current year schedule.

Cost Variance Analysis (+\$0.7M):

The favorable cost progress is due to completion of Fuel Offload activities with less effort than planned and by the elimination of the need to provide supplemental heating system for the Interim Decay Storage Vessel.

Project Issues

(03/23/06)

Redirection of the FFTF Closure Project and Out Year Budget Profile

- Directed to accelerate FFTF deactivation and place facility in long-term Surveillance and Maintenance mode
- Transferring FFTF sodium-bonded fuel to the 200 Area vs. INL
- Sodium residuals will remain throughout plant sodium systems
- Bulk sodium will remain stored in the 400 Area Sodium Storage Facility

T-3 Cask SARP Addendum Reconsideration Disapproved by HQs in 02/06 (M-81-00A-T04 at risk)

- Delays shipment of sodium-bonded fuel to INL
- Corrective Action: A technical strategy document is being prepared to discuss with HQs the re-establishment of an agreed path forward

Probable TPA Change Request Required

_	M-081-10-T01	Submit Final Sodium Disposition Evaluation Report	07/31/07
-	M-092-10	Submit Sodium Disposition Evaluation Report	07/31/07
-	M-081-00A-T04	Complete Special Fuel Transfer To INL	03/31/09
_	M-092-09	Establish Milestones And/Or Target Dates For Sodium Facilities	07/30/09
_	M-081-14	Complete FFTF Sodium Drain	09/30/09

Summary

(03/23/06)

- Significant progress continues to be made in the key deactivation areas of fuel offload and sodium drain
- The project is currently pursuing a clear path forward

Tri-Party Agreement Major Milestone Management Review March 23, 2006

Name	Organization	Mail Stop	Attachments Yes/No
Rick Bond DEEDA LARUE John Neath Dave EUMS John Price Larvy Gadloois	Ecology WEH DOE/RL POE/RC Ecology EPA		No 11 11 No.
Steve Chalk KONID BAZZULL CE TO PON MARRISON	RL RL TPA		NO
Alicia Boyd Doug Chysin Rod Almynot	DOE-RL/FFTF		No.